



Social Services

Scott M. Matheson, Governor, State of Utah
Anthony W. Mitchell, Ph.D., Executive Director

(801) 533-6146

September 5, 1978

Mr. Dwight J. Crossland
Chief Engineer
Atlas Big Indian Mines
Moab, Utah 84532

Re: Snow Mines wastewater ponds

Dear Mr. Crossland:

Review of the plans and information relating to the Atlas Minerals Snow Probe Uranium Mine wastewater treatment ponds near Green River has been completed by this office. Plan sheet SN-T-110-d, Dames & Moore November 22, 1977 construction recommendations for the Snow Treatment Ponds, and Atlas supporting information were reviewed.

As a result of our review, the plans for the Snow-Probe wastewater treatment ponds are approved and a construction permit as constituted by this letter is hereby issued.

The three ponds are designed for the storage, flocculation, and $BaCl_2$ treatment of .23 MGD of Uranium mine drainage. The 460,000 gallon storage pond and two 230,000 gallon treatment ponds will be constructed with a one foot clay liner. The dikes will be appropriately rip rapped at the outfalls and have a slope of three horizontal to one vertical and a dike crest width of ten feet. The $BaCl_2$ solution is to be added at a rate approximately 1050 lbs/day to precipitate the Radium.

Issuance of this construction permit is not an approval of effluent concentrations. Should the effluent not meet state of federal discharge requirements, you must provide whatever additional treatment is necessary.

Sincerely

UTAH WATER POLLUTION COMMITTEE

Calvin K. Sudweeks
Executive Secretary



SMc:ncb

cc: EPA - Denver
Oil Gas Mining
~~Southeastern Utah Dist. Health Dept.~~
Division of Health
Environmental Health Services Branch
Lynn M. Thatcher
Deputy Director of Health

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